

## AP Biology Genetics Study Guide

### Ch. 13 Meiosis

Heredity	Karyotype	Fertilization/syngamy	Gametophyte
Variation	Somatic cell	Zygote	Meiosis I
Genes	Homologous chromosomes	Diploid cell	Meiosis II
Asexual reproduction	Sex chromosomes	Meiosis	Synapsis
Clone	Autosomes	Alternation of generations	Tetrad
Sexual reproduction	Gametes	Sporophyte	Chiasmata
Life cycle	Haploid cell	Spores	Crossing over

### Ch. 14 Mendel and the Gene

Character	Locus	Test Cross	Sex influenced traits
Trait	Allele	Incomplete Dominance	Epistasis
P Generation	Homozygous	Codominance	Pleiotropy
F <sub>1</sub> Generation	Heterozygous	Multiple Alleles	Pedigree
F <sub>2</sub> Generation	Genotype	Sex-linked	Sickle-cell disease
Mendel's Laws	Phenotype	Autosome/Somatic chromosome	Carrier
Laws of Probability	Punnett Square	Sex Chromosome	Huntington's disease
Gene	Monohybrid Cross	X chromosome	Amniocentesis
Dominant	Dihybrid Cross	Y chromosome	
Recessive	Trihybrid Cross		

### Ch. 15 Chromosomes

Chromosome	Chromosomal mutations	Disorders
Polygenic inheritance	Nondisjunction	Hemophilia
Barr body	Autosomal	X inactivation
Wild type	Trisomy	Klinefelter's Syndrome
Linked genes	Polyploidy	Turner's Syndrome
Genetic map	Downs syndrome	Genomic imprinting

### **Questions:**

1. Discuss Mendel's conclusions and relate them to the chromosomal theory of inheritance. Include comments on each of the following: Law of Segregation, Law of Independent Assortment.
2. Differentiate between: dominant-recessive, allele-gene, homozygous-heterozygous, phenotype-genotype, monohybrid-dihybrid-trihybrid-etc.
3. What does it mean when we say a strain of organisms is "true breeding"?
4. What is a test cross?
5. Explain the inheritance of human ABO blood groups.
6. Describe and give an example of the following: pleiotrophy, incomplete dominance, codominance, and epistasis.
7. What are polygenetic traits?
8. Give two examples of dominant human genetic disorders.
9. Who is T.H. Morgan? What were his major contributions to genetics?

# Genetics Ap Biology Guide

**Ying-Ying Zheng**



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